

BEK, Vaclav

Late post-radiation changes in tissues and organs after close-focus irradiation of angiomas in childhood. Cesk.rentg.14 no.6:361-371 D'60.

1. Radiologicka klinika KU v Praze, prednosta prof.dr. V.Svab.
(HEMANGIOMA radiother)
(RADIOTHERAPY compl)

KOLARZH, Yaromir [Kolar, J.], kand.meditsinskikh nauk, doktor; BEK, Vatslav,
doktor

Influence of contact roentgenotherapy on bone growth. Vest. rent.
i rad. 36 no. 2:15-21 Mr-Apr '61. (MIRA 14:4)

1. Iz radiologicheskoy kliniki Karlova Universiteta (dir. - prof.
doktor Vatslav Shvab), Praga.
(BONE) (X RAYS—PHYSIOLOGICAL EFFECT)

KOLAR, Jaromir; STASEK, Vladimir; BEK, Vaclav; KOHOUT, Jan

Contribution to tumors of the heel bone. Cesk. rentgenol. 16 no.2:
121-126 Ap '62.

1. Radiologicka klinika fakulty vseobecneho lekarstvi Karlovy uni-
versity v Praze, prednosta prof. dr. V. Svab.

(CALCANEUS neopl)

BEK, Vaclav; SKALOVA, Nadezda; VICH, Zdenek

On causes of late diagnosis of malignant tumors. I. Tumors difficult to diagnose and incurable tumors. Cas. lek. cesk. 101 no.18:550-555 My '62.

1. Radiologicka klinika lekarske fakulty KU v Praze, prednosta prof. dr V. Svab.

(NEOPLASMS diag)

BEK, Vaclav; SKALOVA, Nadezda; VICH, Zdenek

On the causes of late diagnosis of malignant tumors. Tumors accessible for early diagnoses. Cas. lek, cesk. 101 no.20:623-629 18 My '62.

1. Radiologicka lekarske fakulty KU, Praha, prednosta prof. dr. V.Svab.

(NEOPLASMS diagnosis)

KOLAR, J.; BEK, V.; VRABEC, R.; MARESOVA, J.; SCHWANK, R.; SEDLACEK, J.;
KUCERA, M.

Roentgen findings in angioma and other vascular abnormalities. Cesk.
rentgen 16no.6:380-394 D '62.

I. Radiologicka klinika fakulty vseobecneho lekarstvi Karlovy university
v Praze, prednosta prof. dr. V. Svab, DrSc. Klinika plasticke chirurgie
hygienicke fakulty Karlovy university v Praze, prednosta akademik
F. Burain II. dermatovenerologicka klinika fakulty vseobecneho lekarstvi
Karlovy university v Praze, prednosta prof. dr. J. Obrtel.
(HEMANGIOMA) (ANGIOMATOSIS)

BEK, V.; KOLAR, J.; KUCERA, M.; SEDLACEK, J.; VRABEC, R.; SCHWANK, R.;
MARESOVA, J.

On the problem of the biological behavior and spontaneous
involution of hemangioma in children. Cesk. pediat. 18 no.7:
605-612 JI '69.

1. Radiologicka klinika fakulty vseobecneho lekarstvi KU v
Praze, prednosta prof. dr. V. Svab, DrSc.; Klinika plasticke
chirurgie lekarske fakulty hygienicke KU v Praze, prednosta
prof. dr. V. Karfik II dermato-venerologicka klinika fakulty
vseobecneho lekarstvi KU v Praze, prednosta prof. dr. J. Obrtel,
DrSc.

(HEMANGIOMA) (NEOPLASM REGRESSION, SPONTANEOUS)

BEK, V.; KOLAR, J.; VRABEC, R.; SEDLACEK, J.; KUCERA, M.;
SCHWANK, R.; MARESOVA, J.; TRAPL, J.

Clinical importance and therapeutic principles of hemangioma
in childhood. Cesk. pediat. 18 no.9:798-809 S '63.

1. Radiologicka klinika fakulty vseobecneho lekarstvi KU v
Praze, prednosta prof. dr. V. Svab, DrSc. Klinika plasticke
chirurgie lekarske fakulty hygienicke KU v Praze, prednosta
prof. dr. V. Karfik, DrSc. II kozni klinika fakulty vseobecneho
lekarstvi KU v Praze, prednosta prof. dr. J. Obrtel, DrSc.
(HEMANGIOMA) (NEOPLASM RADIOTHERAPY)
(NEOPLASM REGRESSION, SPONTANEOUS)
(SURGERY, OPERATIVE)

SCHWANK, R.; MARESOVA, J.; BEK, V.; KOLAR, J.; KUCERA, M.;
SEDLACEK, J.; VRABEC, R.

On the classification, nomenclature and clinical picture of
hemangioma. (An attempt at correct classification of hemangioma).
Cesk. dermat. 38 no.2:87-95 Ap '63.

1. II dermato-venerologicka klinika fakulty vseobecného
lékarství KU v Praze, přednosta prof. dr. J. Obřetel Radiologická
klinika fakulty všeobecného lékařství KU v Praze, přednosta
prof. dr. V. Svab Klinika plastické chirurgie lékařské fakulty
hygienické KU v Praze, přednosta akademik F. Burian.
(NOMENCLATURE) (HEMANGIOMA) (CLASSIFICATION)

BEK, V.; MICHAL, V.

Apropos of the gonadal dosage following irradiation of angioma in children. Importance of dosimetric studies in irradiation with van der Plaats apparatus. Cesk. rentgen. 18 no.1:11-19 Ja'64.

1. Radiologicka klinika fakulty vseobecneho lekarstvi KU v Praze, (prednosta: prof.dr.V.Svab, DrSc.) a Ustav hygieny prace a chorob z povolani v Praze, (reditel: prof.dr.J. Teissinger, DrSc.). Odbor radiacni hygieny.

*

BEK, V.; KOLAR, J.

Our present principles with actinotherapy of angioma in
childhood. Cesk. rentgen. 18 no.1:20-34 Ja'64.

1. Radiologicka klinika fakulty vseobecneho lekarstvi KU
v Praze; prednosta: prof. dr. V.Svab, DrSc.

*

KOLAR, J.; ~~BEK, V.~~; VRABEC, R.; MARESOVA, J.; SCHWANK, R.;
SEDLACEK, J.; KUCERA, M.

X-ray findings in angiomas and other vascular malformations.
Rev czech med 9 no. 2:103-125 '63.

1. Radiological Clinic (Director: Prof. V. Svab, M.D., Sc.)
Second Dermatological Clinic (Director: Prof. K. Obrtel,
M.D., D. Sc.) Faculty of General Medicine and Clinic of
Plastic Surgery (Director: Academician F. Burian),
Medical Faculty of Hygiene, Charles University, Prague.
(HEMANGIOMA) (SKIN NEOPLASMS) (ABNORMALITIES)
(RADIOGRAPHY) (VASCULAR DISEASES)

JAKOUBKOVA, J.; BEK, V.; HAVRANKOVA, N.; PALECEK, L.; KOLDOVSKY, P.

On the problem of lung metastases in Grawitz's tumor of the kidney. *Cesk. radiol.* 19 no.6:393-397 N '65.

1. Radiologicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. V. Svab, DrSc.) a Ustav experimentalni biologie a genetiky Ceskoslovenske akademie ved v Praze (reditel doc. dr. M. Hasek, DrSc.).

JAKOUBEKOVÁ, J.; KOLDOVSKÝ, P.; BĚK, V.; MAJSKÝ, A.; SCHNEID, V.; VOPATOVÁ, M.

To the problem of immunotherapy of choriocarcinoma. Neoplasma
(Bratisl.) 12 no.5:531-542 '65.

1. Radiological Clinic of the Faculty of General Medicine of
the Charles University; Institute of Experimental Biology and
Genetics Československé akademie věd; Institut of Hematology
and Blood Transfusion, The First Gynecological Clinic of the
Charles University, Prague, Czechoslovakia. Submitted September 11,
1964.

L 55151-65 ENT(d)/EEC(k)-2/EEC-4/ENP(v)/ENP(k)/ENP(h)/ENP(1) Fo-4/Pq-4/
 P: 4/Pg-4/Pk-4/P1-4 WW
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Kosharskiy, B. D.; Bek, V. A.; Beznovskaya, T.kh.; Gorokhova, M. S.; Krastoshchikov,
T. M. Rabinovich, G. A.; Shliozberg, Yu. A.; Frenkel, I. B.

English text and regulation; handbook material. Avtomaticheskyye ustroystva i
 ustroystva upravleniya materialy: Moscow, 1974. "Mashinostroyeniye", 160
 p., illus., 160. diagrs. English slip inserted. 17,00 copies printed.

TOPIC TAGS: automatic control, automatic temperature control, automatic pressure
 control, automatic vacuum control, temperature instrument, pressure measuring
 instrument, flow meter, liquid level instrument, pneumatic servomechanism

REMARKS: AV-PA-8: The book describes the equipment used for automatic control,
 and the application of technological processes and discusses temperature,
 pressure, and level control devices, hydraulic, pneumatic, electric, and electronic
 detecting, regulating. The book is intended for engineering and technical
 personnel engaged in the design, planning, and operation of automated industrial
 enterprises, and may prove useful to students at higher and secondary specialized
 schools.

1/2
 Cord

L 55151-65

ACCESSION NRAM5005930

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Ch. XI. Electric actuators — 679

SUBMITTED: 18/um64

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NO REF SOV: 000

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Co-d 2/2

KOROLEV, A.Ya.; BEK, V.I.; GRISHIN, N.A.

Adhesion of polytetrafluoroethylene to metals.

Vysokom.sped. 4 no.9:1411-1418 S '62. (MIRA 15:11)

(Ethylene)

(Plastics)

(Adhesion)

BEK, V.I.; KARDASHOV, D.A.; VLASOVA-GOLOVATAYA, V.I.; Prinimali uchastiye:
MARKINA, O.A.; ZNAMENSKAYA, M.I.; VOZDVIZHENSKAYA, L.A.

Heat-resistant VK-4 elastic adhesive. Plast.massy no.4:23-25
'64. (MIRA 17:4)

1 31/23-65 EPP(c)/BPR/ENT(j)/ENT(m)/A/ENT(v) P-44/PR-44/P4-44 RP/RR

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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204210007-5"

BEK, Zdenek, inz.

Telemetering in power engineering. Tech praca 17 no.3;177-178
Mr '65.

1. Central Council of the Czechoslovak Scientific and Technological
Society, Prague.

BEK-KAZAROV, P.T.

AKULOV, Leonid Sergeyevich; ~~BEK-KAZAROV~~, Paylak Tigranovich; KAMINSKIY, Ya.A.;
MOVSEVICH, I.L.; ORLOV, G.Y.; PABKOV, B.I.; POLOVNIKOV, A.P.;
CHERNOV, G.L.; SHAKULOV, S.A.; ISHKOVA, A.X., red.; LYUDSKOV, B.P.;
SUDAK, D.M., tekhn. red.

[Layout and equipment for commercial enterprises] Ustroistvo i
oborudovanie torgovykh predpriatii. Moskva, Gos. izd-vo torg.
lit-ry, 1958. 411 p. (MIRA 11:7)

(Stores, Retail)

BEK-KAZAROV, P.
BEK-KAZAROV, P.

Procurement of ice. Sov. potreb. koop. no.1:34-36 Ja '58.
(Ice industry) (MIRA 11:1)

AKULOV, L.S.; BEK-KAZAROV, P.T.; KAMINSKIY, Ya. A.; MOVSHOVICH, I.L.;
ORLOV, G.F.; PASHKOV, B.I.; POLOVNIKOV, A.P.; CHERNOV, G.L.;
SHAKULOV, S.A.

"Equipment of commercial enterprises", Sov. torg. no. 7:62 J1 '58.
(MIRA 11:7)

(Stores, Retail—Equipment and supplies)

ANANYAN, A.K.; BEK-MARMARCHEV, B.I.; ZHAMAGORTSYAN, V.N.; MKHITARYAN, A.M.

Using Soviet-produced surface-active agents for reducing the
evaporation from water surface in reservoirs. Izv.AN Arm.SSR.
Ser.tekh.nauk 16 no.2/3:117-128 '63. (MIRA 16:9)
(Surface-active agents) (Evaporation)

BEK-NAZAROV, A.

In the dry subtropics. Vokrug sveta no.6:28-32 Je '53. (MIRA 6:6)
(Soviet Central Asia--Agriculture)

BEK-RUBILINA, E.H.

~~Reducing the incidence of silicosis at the Tekeli Mine.~~ Zdrav.
Kazakh. 17 no.10/11:68-71 '57. (MIRA 12:6)

1. Iz gorodskogo tuberkuleznogo dispansera g.Tekeli.
(TEKELI--MINE SANITATION) (LUNGS--DUST DISEASES)

BEKACH, A.

Towards New (Radio) Sport Success. "RADIO" Ministry of Communication,
#7-8:13:Jul-Aug. 55

POLAND

BEKAJLO, Romuald and PROST, Edmund, Chair for the Hygiene of Animal Products (Katedra Higieny Produktow Zwierzecych), Veterinary Division (Wydzial Weterynaryjny), WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Lublin (Director: Docent, Dr. Edmund PROST)

"Colibacteriosis of Slaughter Chickens."

Warsaw-Lublin, Nedycyna Weterynaryjna, Vol 19, No 3, Mar 63, pp 143-145.

Abstract: [Authors' English summary modified] A sanitary veterinary study covering 30,230 chickens revealed 211 or 0.7 percent cases with pericarditis serofibrinosa. The pathogenic agent was disclosed to be E coli of serotypes 071, 08, and 03. Bacteriological examination of the muscle tissue of the affected animals revealed a strong bacteremia with E. coli, and the authors recommend that such chicken should be marked as conditionally fit for consumption. There are 9 references, of which 2 are Polish, 3 German, and 4 English.

1/1

POLAND

BEKAJLO, Romuald [Affiliation not given]

"Incidence of Tuberculosis in Slaughter Geese."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 5, May 63, pp 254-255.

Abstract: Routine inspection of slaughtered geese revealed an appreciable number which, despite well developed meat (muscles) and fat, indicated the liver, spleen, and heart affected by tuberculosis; no changes were noted in the other organs, joints, or bone marrow. Histological examination confirmed presence of affected foci, but bacteriologically, mainly biological tests were positive, proving the TB to be of avian type. Though regulations are specific on inadmissibility of such meat for export, they are not clear with respect to domestic consumption, and should be declared only conditionally usable. There are no references.

1/1

BEKAJLOWA, Barbara

The level of Ca, K and Na in the cerebrospinal fluid and blood
in convulsive states in children. Neurol. neurochir. psychiat.
pol. 13 no.6:849-853 N-D'63

1. Z I Kliniki Pediatricznej AM w Lublinie; kierownik: doc.dr.
med. A. Sokolowska-Dekowa.

BRKAJLOWA, Barbara

Incomplete intestinal rotation as a cause of infantile
athrepsia. Pediat. pol. 38 no.3:325-327 '63.

1. Z I Kliniki Pediatricznej AM w Lublinie Kierownik: doc.
dr med. A. Sokolowska-Dekowa.

(INTESTINAL DISEASES) (ABNORMALITIES)
(INFANT NUTRITION DISORDERS)

BEKAREVICH, A.

Metallurgy on the freedom island. Metallurg 9 no.4:46-47
Ap '64. (MIRA 17:9)

BEKAREVICH, A.D.

Sugar industry of Cuba. Sakh.prom. 38 no.2:63-67 F '64.
(MIRA 1713)

BEKAREVICH, A.D., aspirant

Textile industry of Cuba. Tekst. prom. 24 no.3:91-92 Mr '64.
(MIRA 17:9)

KRYMOV, V.V.; BIKAREVICH, A.M., redaktor; ZUBAKIN, I.M., tekhnicheskii redaktor; ~~redaktor;~~

[Safety measures and industrial sanitation while working with magnesium alloys] Tekhnika bezopasnosti i proizvodstvennaia sanitariia pri rabote s magnievymi splavami. Moskva, Gos.isd-vo oboronoii promysh., 1955. 203 p. (MLRA 8:9)
(Magnesium alloys) (Metallurgy—Safety measures)

BEKAREVICH, A.N.

SIKORSKIY, K.P. (Moskva); BEKAREVICH, A.N. (Gomel'); BUDANTSEV, P.A. (Chkalov).

"Algebra textbook, part 1, for grades 6 and 7 of the seven-year school and highschool" by A.N.Barsukov. Reviewed by K.P.Sikorakii, A.N.Bekarevich, P.A.Budantsev. Mat.v shkole no.5:46-65 S-O '57.
(MIRA 10:9)

(Algebra--Textbooks)

BEKAREVICH, A.N. (Gomel')

"Stories on solution of problems" by I. I.A. Depman. Reviewed by
A. N. Bekarevich. Mat. v shkole no.3:84-86 My-Je '58.

(MIRA 11:5)

(Mathematics) (Depman, I.IA.)

BEKAREVICH, A. N. (Gonol')

Methods for teaching irrational equations. Mat. v shkole
no.1:74-80 Ja-F '59. (MIRA 12:1)
(Equations, Irrational)

BEKAREVICH, A.M. (Gomel'); BERESLAVSKIY, M.D. (Uzhgorod); GHOMOV, A.P. (Melekess);
DUBINCHUK, Ye.S.; TESLENKO, I.P. (Kiyev); ZOLOTOVITSKIY, Ye.M. (Bentovo);
KAZHDAN, B.I. (Leningrad); KLIMENCHENKO, D.V. (Berdiansk); MEL'NIKOV,
K.S. (Sterlitamak); MIKHAYLOV, K.F. (Magnitogorsk); NASYROV, A.Z. (Sterl-
itamak); NEFEDOV, D.I. (Moskva); NOVOSELOV, S.I. (Moskva); PRAVILOV, B.R.
(s. Kanino Ryazanskoy obl.); PRINTSEV, N.A. (Kursk); SEMEHOVICH, A.F.
(Sverdlovsk)

Discussion of the plans for the programs. Mat. v shkole no.6:5-28
NLD '59. (MIRA 13:3)

(Mathematics--Study and teaching)

BEKAREVICH, I.L.; KHALATNIKOV, I.M.

Phenomenological deduction of the equations of vortex motion for
He II. Zhur.eksp.i teor.fiz. 40 no.3:920-925 Mr '61.

(MIRA 14:8)

1. Institut fizicheskikh problem Akademii nauk SSSR.
(Vortex motion) (Helium)

BEKAREVICH, N.YE.

Bekarevich, N.Ye. "Materials for a new methodology of determining soil aggregates", Trudy Dnepropetr. s.-kh. in-ta, Vol. II-III, 1948, p. 149-67, - Bibliog: 20 itmes.

SO: U-3261, 10 April 53, (Letopis'Zhurnal 'nykh Statey No. 12, 1949)

BEKAREVICH, N. YE

Berkarevich, N. Ye. "The results of a study of deep-soil fertilizing in vineyards", Trudy Dnepropetr. s. -kh. in-ta, Vol. II-III, 1943, p. 279-92, - Bibliog: 6 items

SO: U-3261, 10 April 53, (Letopis' zhurnal 'nykh Statey, No. 12, 1949

BEKAREVICH, N. E.

24990. BEKAREVICH, N. E. K Metodike Agregatnogo Analiza Pochvy. Trudy Yubileynoy
Sessii, Posvyashch. Stoletiyu So Dnya Rozhdeniya Dokuchaeva. M.-L., 1949,
S. 365-71. - Bibliogr: S. 371

SO: Letopis', No. 33, 1949

BEKAREVICH, N.E. I VARUNTSYAN, E.S.

25105 BEKAREVICH, N.E. I VARUNTSYAN, E.S. Skhema Pochvenno-Agrotekhnicheskikh Zon
Khlopkovoy Territorii Azerbaydzhanskoy SSR. - V Ogl. 2-y Aft: E.S. Vartsunyan.
Trudy Yubileynoy Sessii, Posvyashch. Stoletiyu So Dnya Rozhdeniya Dokuchayeva.
M.-L., 1949, S. 571-73

SO: Letopis', No.33, 1949

BEKAREVICH, N. E.

No, 37384--Vliyaniye adsorbirovannoy vody na ^aprochnost' struktury pochvy.
Pochvovedeniye, 1949, No. 11, s. 668-74--Bibliogr: 8 Nazv.

So: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949.

FEKARENICH, N. E.

Soil Moisture

Stability of soil structure aggregated as a function of the quantity of adsorbed water.
Trudy Dnepr. sel'khoz. inst. No. 4, 1951.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

BEKAREVICH, N. E., VOIDOVANOV, A. I.

Sewage Irrigation - Dnepropetrovsk

Irrigated fields of the city of Dnepropetrovsk. Trudy Dnepr. sel'khoz. inst. No. 4, '51.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

BEKAREVICH, N. E., KRECHUN, N. E.

Soil Physics

Significance of the stability of .25-.50 mm structural fractions in analyzing soil properties. Trudy Dnepr. sel'khoz. inst. No. 4, 1951.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

BEKAREVICH, N. E.

Journal of the Science of
Food and Agriculture
April 1954
Agriculture and Horticulture

(3)
Fractional method of aggregate analysis of soil. N. E. Bekarevich,
M. B. Kreshen, and V. M. Kotalkova (Pochvovedeniye, 1953, No. 3,
44-54; *Soils & Fert.*, 1953, 12, 255).—Air-dry soil is fractionated
by dry sieving and the aggregate stability by wet-sieving after
rapid moistening. The stability of the fraction 0.25—0.5 mm. and
the effect of fractional size on aggregate stability are better indica-
tions of the agronomic characteristics of the soil than is the aggregate
stability determined after capillary moistening or on unfractionated
soil. A. G. POLLARD

BEKAREVICH, N.E.

Chemical Abstracts
May 25, 1954
Soils and Fertilizers

(6)
Changes produced in taky soils by vegetation. N. I. Maslovich, L. E. Rodin, E. I. Rukhovich, R. A. Kulshnikova, and N. E. Bekarevich (V. L. Komarov Bot. Inst. and Agr. Inst., Dnepropetrovsk). *Izv. Vsesoyuzn. Nauchn. Tsentr. Akad. Nauk SSSR*, 1953, No. 11, 36-42. — Data are presented on the compn. of various plants (tops and roots) invading taky soils. The compn. of the soil and its sq. exts. show a favorable effect with the change in the plant assocns. J. B. Jones

DEKAREVICH, N. Yo.

"The Crust of the Shirvanskaya Steppe Soil and Methods for Its Control Under Irrigation Conditions." Dr Agr Sci, Soil Inst imeni V. V. Dokuchayev, Acad Sci USSR, Moscow-Dnepropetrovsk, 1955. (KL, No 11, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

Name: REKAREVICH, Nikolay Yemel'yanovich

Dissertation: The earth crust of the Shirvan steppe
and means of combatting it under
irrigation conditions

Degree: Doc Agr Sci

Affiliation: Dnepropetrovsk Agr Inst

Defense Date, Place: 8 Feb 56, Council of Soil Inst imeni
Dokuchayev, Acad Sci USSR

Certification Date: 20 Apr 57

Source: RMVO 14/57

Bekarevich, N. Ye

USSR/Soil Science - Physical and Chemical Properties of Soils.

J-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10493

Author : Koda, V.A., Letunov, P.A., Budakova, A.A., Zemskiy, P.M.,
Bekarevich, N.Ye., Kuznetsova, T.V.

Inst :
Title : Some Physical Properties of the Takry

Orig Pub : Takry Zap. Turkmenii i puti ikh s.-kh. osvoyeniya, Moskva,
Akad Nauk SSSR, 1956, 489-512.

Abstract : This is an examination of the physical properties of the
takry of the Kopet-Dagh mountain plain and the lower reaches of the Ami-Dar'ya. The volumetric weight -- 1.4 -- of the upper part of the crust is much lower than that of the lower part of the crust which, to a depth of 1.65 cm., looks like a dwarf alluvial /illyuvial'nyy/ horizon. The total, including non-capillary, porosity of the upper part of the crust reaches 16%, and 6% in the lower part; the maximal hygroscopic moisture and the withering coefficient

Card 1/3

USSR/Soil Science - Physical and Chemical Properties of Soils.

J-3

APPROVED FOR RELEASE: 06/06/2000, 10491A-RDP86-00513R000204210007-5"

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10493

are, correspondingly, 4.9% and 5.2%. When the takry of the mountain plain are wet and the temperatures low, the speed of filtration is very slight -- 0.000003 cm./second, or 1 m³/hectare per hour. When the weather is warm the speed of absorption increases more than 1000%, reaching 14 m³/hectare per hour. The poor filtration qualities of the takry derive from the properties of the crust and of the rocks from which the soil is formed -- the amount of clay which they contain, their stratification. Breaking up the surface horizons of the takry to a depth of 25 cm. improves their filtration properties only for two hours. A longer-lasting effect can be attained by combining plowage /plantazhnaya vspyshka - sic/ with application of organic fertilizers or sand; this method raises the speed of filtration to 50-80 m³/hectare per hour. The field moisture capacity of the

Card 2/3

.. USSR/Soil Science - Physical and Chemical Properties of Soils.

J-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10493

takyry is, by weight, ~ 20-22%, or, by volume, 30-32%.
The structural aggregates of the takyr crust are distinguished by their weak water-permeability. The takyry have a narrow moisture interval of physical maturity (~ 2%) and low absolute moisture values.

Card 3/3

USSR/Cultivated Plants. Technical Plants. Oil and M
Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68264

Author : Bekarevich, N. Ye.

Inst : Dnepropetrovsk Agricultural Institute.

Title : Sparsity, Height, and Yield of Irrigated
Cotton on Crusted Soils.

Orig Pub : Tr. Dnepropetrovsk. s.-kh. in-t, 1956, 6,
76-81

Abstract : Soil microrrelief, density, height, and yield
of cotton, as well as soil crust were studied
in regions where cotton develops unevenly.
Microdepressions on irrigated cotton fields
reduce yields significantly, especially when
a pronounced microrrelief is combined with
crusted soils. The surface of microdepressions

Card : 1/2

USSR / Soil Science. Physical and Chemical Properties of Soil. J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48626

Author : Bekarevich, N. Ye.

Inst : Dnepropetrovsk Agricultural Institute

Title : Changes in Water Permeability in Connection with Varying Initial Rates of Soil Moistening

Orig Pub : Tr. Dnepropetr. s.-kh. in-ta, 1956, 6, 82-89

Abstract : Comparison of values of the absorption factor in dry and previously irrigated soils suggests that this be termed fluctuation range of water permeability during soil moistening. In experiments with a soil of firm structure this range had a low fluctuation value of 1 : 0.67, and with a soil of loose structure 1 : 87. The water permeability of the latter soil, previously

Card 1/2

USSR / Soil Science. Physical and Chemical Properties J
of Soil.

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48626

irrigated slowly, was almost 87 times more
water permeable than when rapidly irrigated.
The range of water permeability change is one of
the indicators which characterize agricultural
soil properties. -- S. A. Nikitin

Card 2/2

22

88445

S/056/60/039/006/037/063
B006/B063

24.5300

AUTHORS: Bekarevich, I. L., Khalatnikov, I. M.

TITLE: Theory of the Kapitza Thermal Discontinuity on the Interface
Between Liquid He³ and a Solid

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6(12), pp. 1699 - 1712

TEXT: Heat transfer between liquid He II and the surrounding solid is accompanied by a temperature jump which is related to the complicated temperature exchange between He II and the phonons of the solid. A

similar effect is displayed by He³ where the surface of the solid performs small vibrations, and the moved liquid carries away a small amount of energy. Nonetheless, a temperature jump occurs on the boundary. A theoretical description of this effect is presented here. The authors used

liquid He³ which was in contact with the vibrating surface of a solid. At low temperatures, liquid He³ can be regarded as a Fermi fluid, and its condition is characterized by an excitation distribution function which

Card 1/3

Theory of the Kapitza Thermal Discontinuity
on the Interface Between Liquid He³ and a
Solid

8/056/60/039/006/037/063
B006/B063

satisfies the equation of motion $\frac{\partial n}{\partial t} + \frac{\partial n}{\partial r} \frac{\partial \varepsilon}{\partial p} - \frac{\partial n}{\partial p} \frac{\partial \varepsilon}{\partial r} = I(n)$ (n - distribu-
tion function; ε - excitation energy which is a function of n ;
 $I(n)$ - collision integral; p - momentum). It may be assumed that all points
of the body surface oscillate in phase. Therefore, the distribution
function is only a function of the normal to the surface z . n is set equal
to $n_0 + n_1$, where n_0 is the equilibrium Fermi function at absolute zero;
thus, $\varepsilon = \varepsilon_0 + \int f(p, p') n_1(p') dp'$ and $f(p, p') = \delta \varepsilon(p) / \delta n(p')$. Spherical
coordinates, θ and χ , are introduced (θ is the angle between p and z ;
 χ is the azimuthal angle), μ is substituted for $\cos \theta$, and the
 z -coordinates are measured in units of the mean free path ($l = v_0 \tau$);
with $\omega \tau \rightarrow \omega$ (ω - oscillation frequency) one obtains equation (8):

$$\mu \frac{\partial \varphi}{\partial z} + (1 - i\omega \tau) \varphi = - \frac{i\omega \tau F_0}{1 + F_0} \varphi_0 - \frac{3i\omega \tau F_1}{1 + F_1} \mu \varphi_{1n} - \frac{3i\omega \tau F_1}{1 + F_1} \cdot \sqrt{1 - \mu^2} \cos \chi \varphi_{1t}. \text{ Next,}$$

the suitable boundary conditions are determined. When substituting $\varphi(\mu)$
for $\varphi(z, \mu)$ at $z=0$, one obtains equation (15): $\psi = -p_0 u_z(\mu + \frac{1}{2}) - p_0 u_t \cdot \sqrt{1 - \mu^2} \cos \chi$,

Card 2/3

88445

Theory of the Kapitza Thermal Discontinuity
on the Interface Between Liquid He³ and a
Solid

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and the condition for $\oint$ reads $\psi_{1n} = \frac{1}{2} \int_{-1}^{+1} \mu \psi(\mu) d\mu = -p_0 u_z / 3$. The solution to (8) is divided into two parts (proportional to u_z and u_t) according to the two terms of (15). The solution corresponding to perpendicular surface oscillations is called the longitudinal solution, while that corresponding to tangential surface oscillations is called the transverse solution. The two types of solutions are discussed, and several relations are derived for diffuse reflection in both cases. Thereupon, mirror reflection is studied, in which case a solution is obtained through a Fourier expansion. Finally, several formulas are presented for the thermal resistance of the boundary, which is proportional to T^{-3} . Academician L. D. Landau is thanked for discussions. V. A. Fok is mentioned. There are 1 figure and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems, Academy of Sciences USSR)

SUBMITTED: June 13, 1960

Card 3/3

HEKARYAN, V.

General, Questions of Teaching (1210)

Sovetakan mankavarzh, No 6, 1953, pp 39-43. "Teaching Physics (Electricity) in the 7th Grade." (Armenian)

No abstract.

SO: Referativnyy Zhurnal--Fizika, No 2, Feb 54, (N-30785, 28 July 1954)

BEKARYOV, E.

New Machines for Agriculture.
In the Bulgarian Heavy Industry, 1:45:Jan 55

BEKASOV, A.G.

KOKAROVTSOVA, V., inzhener.

Serious shortcomings of a book ("Grain drying manual". A.G.Bekasov, N.I.Denisov. Reviewed by V. Kokarovtseva.) Muk.-elev.prom. 20 no.2: 30 P '54. (MLRA 7:7)

1. Vsesoyuznoye ob'yedineniye Zagotzerno.
(Grain--Drying) (Bekasov, A.G.) (Denisov, N.I.)

BEKASOV, A.P.; SMOLYANOV, O.G.

Transitional characteristics of resonant parametric amplifiers
and converters. Radiotekh. i elektron. 8 no.2:241-247 F '63.
(MIRA 16:2)

(Parametric amplifiers)

L-17277-63 - BDS

ACCESSION NR: AP3004375

S/0109/63/008/008/1407/1417

AUTHOR: Smolyanov, O. G.; Bekasov, A. P.

TITLE: Complex frequency characteristics of linear systems with periodically varying parameters

SOURCE: Radiotekhnika i elektronika, v. 8, no. 8, 1963, 1407-1417

TOPIC TAGS: frequency characteristic, parametric amplifier, parametric converter, mixer

ABSTRACT: A theoretical method is considered of approximate determination of frequency characteristics of periodically-time-varying linear systems. The method is based on a description of a two-pole network by an infinite matrix whose determinant is similar to that of the Hill matrix. Each parameter may vary according to its own law, but their periods are equal. Limited-order matrix are used in analyses of practical cases. For a high Q-factor of the

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L 17277-63

ACCESSION NR: AP3004375

oscillatory system and small relative amplitude of varying parameters, 2nd and 3rd order matrices provide sufficient accuracy. With the 2nd order matrices, complex transfer coefficients of parametric two-circuit amplifiers, converters, and varying-resistance converters are found. The formulas obtained for complex transfer coefficients are similar to the equations of resonance characteristics of two-circuit coupled systems, which fact makes the formulas easy to see and convenient in application. Orig. art. has: 3 figures and 43 formulas.

ASSOCIATION: none

SUBMITTED: 05Jul62

DATE ACQ: 20Aug63

ENCL: 00

SUB CODE: PH, GE

NO REF SOV: 003

OTHER: 009

Card 2/2

BEKASOV A. S

127-58-6-14/25

AUTHORS: Azimov, A.A., Engineer; Bekasov, A.S.; Gorniyenko, N.A.,
and the Editors

TITLE: Discussions on the Article of G.V. Rodionov and A.D. Kostylev (Obsuzhdeniye stat'i G.V. Rodionova i A.D. Kostyleva) "On Development of Loading Mechanization in the Mining Industry" ("O razvitii mekhanizatsii pogruzki v gornorudnoy promyshlennosti")

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 52-55 (USSR)

ABSTRACT: The above mentioned article was published in Nr 5 (1957) and Nr 2 (1958) of this periodical. In the discussion, representatives of different scientific organizations present their views on loading mechanization and describe different machines created for this purpose by their organizations. The editors relate the decisions of an All-Union scientific-technical conference which took place in Leningrad in January 1958. The conference recommended the construction of 5 basic types of loading machines, each adapted for work under specific conditions. The conference also recommended the design in 1958-59 of one standard type of loading machine.

Card 1/2

127-58-6-14/25

Discussions on the Article of G.V. Rodionov and A.D. Kostylev. "On Development of Loading Mechanization in the Mining Industry"

ASSOCIATION: Slavyanskoye konstruktorskoye byuro gosplana UkrSSR (The Slavyansk Construction Office of Gosplan of the UkrSSR); Giprorudmash (Giprorudmash); Karagandinskiv institut Giprouglegormash (The Karaganda Institute of Giprouglegormash).

AVAILABLE: Library of Congress

Card 2/2 1. Machines-Cres-Loading-Design

BEKASOV, A.S., inzh.

Small MPB loading machine. Gor. zhur. no.3:55-56 Mr '61.

(MIRA 14:3)

1. Institut Giprorudmash, Krivoy Rog.

(Ore handling—Equipment and supplies)

BEKASOV, Aleksandr Sergeyevich; CHUCUNIKHIN, S.I., otv. red.; ABARBARCHUK,
F.I., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Small MBL cutter-loader] Malogabaritnyi kombain MBL. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 87 p.

(MIRA 14:11)

(Mining machinery)

BEKASOV, Aleksandr Sergeyevich; GEDEVANOV, A.K., otv. red.;
ABARBARCHUK, P.I., red. izd-va; LAVRENT'YEVA, L.G.,
tekhn. red.

[Mechanics' handbook on loaders] Spravochnik mashinista
pogruzochnykh mashin. Moskva, Gosgortekhnizdat, 1963. 207 p.
(MIRA 16:5)

(Loading and unloading)

BARANOVA, Z.Ye.; BURAKOVA, A.T.; BEKASOVA, N.B.; CHIKHACHEVA, P.K., red.;
DEMENT'YEVA, T.A., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Stratigraphy, lithology, and flora of Jurassic sediments of the
Tuarkyr region.] Stratigrafiia, litologiya i flora iurskikh otlo-
zhenii Tuarkyra. Moskva, Gostoptekhzdat, 1963. 231 p. plates.
(Leningrad. Vsesoiuznyi geologicheskii institut. Trudy, vol. 88.
Problema neftegazonosnosti Srednei Azii, no.13). (MIRA 1611)

BEKASOV, D.

Ardent champion of communism. Sov. profsoiuzy 18 no.8:4-6 '62.
(MIRA 15:4)

1. Chlen redaktsionnoy kollegii gazety "Pravda."
(Russian newspapers)

BEEKASOV, D.

The CPSU is the party of the entire people. Sov. profsoiuzy 18
no.15:23-24 Ag '62. (MIRA 15:7)
(Communist Party of the Soviet Union--Party work)

BEKASOV, I.

At Pskov and Narva, Voen. znan. 34 no.2:18 P '58,

(MIRA 11:3)

1. Predsedatel' Pskovskogo oblastnogo komiteta Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

(Russia--Revolution, 1917-1921)

(Pskov Province--Military education)

BEKASOV, V., aspirant

Increasing the power of the "Pobeda" engine. Za rul. 17 no.5:24
My '59. (MIRA 12:8)

1. Moskovskiy avtomobil'no-dorozhnyy institut im. V.M.Molotova.
(Automobiles---Engines)

BEKASOV, V.

Racks for servicing automobiles. Avt. transp. 37 no.7:54-55 J1 '59.
(MIRA 12:10)

(Service stations--Equipment and supplies)

BEKASOVA, L.M.

TSIOLKOVSKIY, Konstantin Eduardovich; BLAGONRAVOV, A.A., akademik, redaktor;
VOROB'YEV, B.N., inzhener, redaktor; KOSMODEM'YANSKIY, A.A., doktor
fiziko-matematicheskikh nauk, nauchnyy redaktor; BEKASOVA, L.M.,
redaktor; ZEMLYAKOVA, T.A., tekhnicheskiy redaktor

[Collected works] Sobranie sochinenii. Moskva, Izd-vo Akademii nauk
SSSR. Vol. 2. [Jet propulsion flying machines] Reaktivnye letatel'-
nye apparaty. 1954. 453 p. (MLRA 8:4)
(Jet propulsion) (Rockets (Aeronautics))

10/11/55 V.B. L.M.
PETROV, D.A., professor, redaktor; BEKASOVA, L.M., redaktor; ALEKSEYEVA,
I.T., tekhnicheskiy redaktor

[Problems in the theory and study of semiconductors and processes
in semiconductive metallurgy] Voprosy teorii i issledovaniia
poluprovodnikov i protsessov poluprovodnikovoi metallurgii; iz
materialov soveshchaniia po poluprovodnikovym materialam 1954.
Moskva, 1955. 91 p. (MLRA 9:3)

1. Akademiya nauk SSSR. Institut metallurgii.
(Semiconductors)

YEREMIN, I.V.; AMOSOV, I.I., doktor geologo-mineralogicheskikh nauk,
redaktor; BEKASOVA, L.M.; MOSKVICHEVA, N.I., tekhnicheskii re-
daktor.

[Changes in the petrographic features of coal during oxidation
under natural conditions] Izmenenie petrograficheskikh usloviyakh.
Moskva, Izd-vo Akademii nauk SSSR, 1956. 81 p. (MLRA 9:6)
(Coal weathering)

PETRUSEVICH, Al'fred Ivanovich; GENKIN, Mikhail Dmitriyevich; GRINKEVICH,
Vladimir Kazimirovich; ~~BEKASOVA, I. M.~~ redaktor izdatel'stva;
ASTAF'YEVA, G.A., tekhnicheskij redaktor

[Dynamic loads on gearing with straight tooth gears] Dinamicheskie
nagruzki v zubchatykh peredachakh s priamozubnymi kolesami., Moskva,
Izd-vo Akademii nauk SSSR, 1956. 133 p. (MLRA 9:12)
(Gearing)

BEKASOVA L.M.

NIKITIN, Valentin Ivanovich, shofer; ~~BEKASOVA, L.M.~~, redaktor; MAL'KOVA,
M.V., tekhnicheskii redaktor

[Increasing the productivity of trucks] Povyshenie proizvoditel'no-
sti gruzovogo avtomobilia. Izd. 2-oe, perer. i dop. Moskva,
Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 74 p. (MIRA 10:11)

1. 2-ya avtobaza Glavmosavtotransa (for Nikitin)
(Motortrucks)

AUTHOR: Bekasova, L.M.

130-58-4-19/20

TITLE: Development of Rolling Practice (Up to the Twentieth Century) (Razvitiye prokatnogo proizvodstva (do XX veka))

PERIODICAL: Metallurg, 1958, Nr 4, pp 35 - 37 (USSR).

ABSTRACT: This is an account of the development of rolling-mill equipment and methods from the time of Leonardo da Vinci to the twentieth century throughout the world. There are 5 figures.

Card 1/1

AUTHOR: Bekasova, L.M.

SOV/130-58-9-21/23

TITLE: The Development of Forging (Razvitiye kuznechnogo
proizvodstva)

PERIODICAL: Metallurg, 1958, Nr 9, pp 35 - 37 (USSR)

ABSTRACT: The author reviews forging practice from the earliest
times to the end of the 19th century, by which time, she
states, all the main measures of forge mechanisation had
been introduced. There are 4 figures.

1. Metals--Forging

Card 1/1

L 1127-66 EWT(m)/EPF(c)/ENP(j)/T/ENA(c)/ETC(m) RPL WW/JW/RM

ACCESSION NR: AP5022934

UR/0062/65/000/008/1462/1464

547.244 + 542.91

AUTHOR: ^{44,55}Korshak, V. V.; ^{44,55}Bekasova, N. I.; Komarova, L. G. ^{44,55}

TITLE: Interaction of B-methyl-N-triphenylborazole⁷ with diisocyanates⁷ and diamines⁷

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1965, 1462-1464

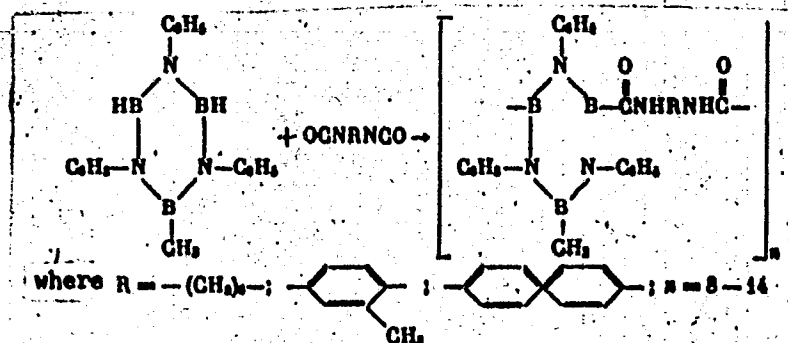
TOPIC TAGS: diamine, copolymer, polycondensate

ABSTRACT: Several linear copolymers⁷ and polycondensates of B-methyl-N-triphenylborazole with diisocyanates and diamines were prepared and characterized. The object of this work was to synthesize thermally stable (above 400°C) polymeric¹⁵ materials. Copolymers with hexamethylenediisocyanate, p-tolylenediisocyanate and 4,4'-diphenylenediisocyanate were synthesized according to the following scheme

Card 1/3

L 1127-66

ACCESSION NR: AP5022934

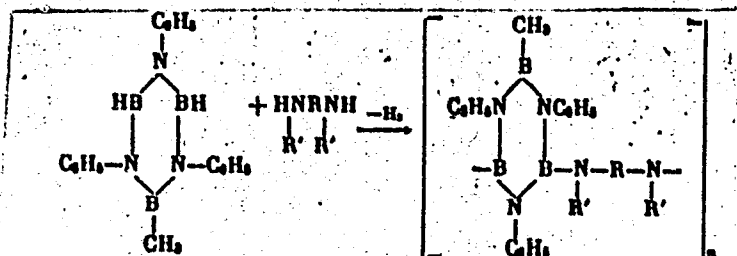


These are solids having 4,000-6,000 molecular weight. Their softening temperature is within the 100-110°C range and they begin to decompose above 100°C. Polycondensates of B-methyl-N-triphenylborazole with hexamethylenediamine, p-phenylenediamine, and N,N'-diisopropylhexamethylenediamine were synthesized according to the following scheme

Cord 2/3

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ACCESSION NR: AP5022934



where R=-(CH₂)_n-; -C₆H₄-; R'=H; i-C₃H₇,

Polycondensate with hexamethylenediamine was a brittle transparent solid with a softening temperature of about 70°C. It was stable up to 260°C and its reduced viscosity in cresole was 0.19. Polycondensate with p-phenylenediamine was a brittle transparent solid with softening temperature at 120°C and reduced viscosity in cresole 0.11. It was stable up to 300°C. An attempt to prepare a polycondensate with N,N'-diisopropylhexamethylenediamine was unsuccessful. Orig. art. has: 1 figure.

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds, Academy of Sciences, SSSR)

SUBMITTED: 03Nov64

ENCL: 00

NO REF SOV: 002

SUB CODE: GC, OC
OTHER: 001

Card 3/3

BEKASOVA, N.I., Cand Chem Sci -- (diss) "Study of the
polycondensation of di- β -oxyethyl ether of ~~of~~ terephthalic
acid." Mos, 1958, 6 pp (Acad Sci USSR. Inst of Elementary
Organic Compounds) 150 copies (KL, 27-58, 103)

2-601a

KORSHAK, V.V.; BEKASOVA, N.I.; ZAMYATINA, V.A.

Heterogeneous polyesters. Report No.10: Polycondensation kinetics
of diethylterephthalate. Izv. AN SSSR Otd. khim. nauk no.4:466-491
Ap '58. (MIRA 11:5)

1. Institut elementoorganicheskikh soedineniy Akademii nauk SSSR.
(Condensation products (Chemistry))
(Terephthalic acid)

BEKASOVA, N. I.

AUTHORS: Korshak, V. V., Zamyatina, V. A., 62-58-4-14/32
Bekasova, N. I.

TITLE: Heterogenous Chain Polyesters (O geterotsepnikh poliefirakh). Communication 9. Catalysts of the Reaction of Etherification (Sobshcheniye 9. Katalizatory reaktsii polieterifikatsii)

PERIODICAL: Izvestiya Akademii Nauk SSSR Otdeleniye Khimicheskikh Nauk, 1958, Nr 4, pp. 482-485 (USSR)

ABSTRACT: The reaction of the polycondensation of ethylene glycol with the esters of terephthalic acid takes place very slowly without catalysts. The number and the kind of catalysts exercise an essential influence on the velocity of the reaction as well as on the molecular weight of the forming terephthalates. According to patent data alcoholic metals, alcoholates (and their oxides) are suggested for the production of polyethylene terephthalates (of dimethylterephthalate and ethylene glycol). As initial substances dimethyl terephthalate and ethylene glycol as well as diethylol

Card 1/3

Heterogenous Chain Polyesters.
Communication 9. Catalysts of the Reaction of
Etherification

62-58-4-14/32

terephthalate were used. The polycondensation process takes place in two stages: the peresterification and the polycondensation. The use of diethylol terephthalate for the production of polyester has hitherto not been described in technical literature. For the first time one of the authors of this work suggests the production of polyester. The results of the polycondensation of diethylol terephthalate is shown in table 2. The effect of some better usable catalysts was examined by some experiments. The results obtained showed that caustic alkali can be used successfully as catalyst. The duration of heating in vacuum must be prolonged in this case (see table 3). With germanium dioxide (or lithium-hydroxide addition respectively) satisfactory results were also achieved. However, they were not better than those obtained with aluminum oxide and lithium hydroxide. There are 3 tables and 10 references, 4 of which are Soviet.

Card 2/3

Heterogenous Chain Polyesters. 62-58-4-14/32
Communication 9. Catalysts of the Reaction of Etherification

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii
nauk SSSR (Institute for Elemental-organic Compounds,
AS USSR)

SUBMITTED: October 12, 1956

AVAILABLE: Library of Congress

1. Ethylene glycol--Condensation--Reaction 2. Catalysts
--Etherification--Reaction 3. Alcoholates--Applications

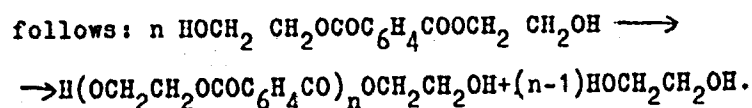
Card 3/3

AUTHORS: Korshak, V. V., Bokasova, N. I., 62-58-4-15/32
Zamyatina, V. A.

TITLE: Heterogenous Chain Polyesters (O geterotsepnnykh poliefirakh). Communication 10. The Kinetics of the Polycondensation of Diethylol-terephthalate (Soobshcheniye 10. Kinetika polikondensatsii dietilolterefalata)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1958, Nr 4, pp. 486-491 (USSR)

ABSTRACT: The reaction of the polycondensation of diethylol-terephthalate has hitherto not been described in detail in technical literature. In the present paper the authors report on the results of kinetic investigations of the polycondensation reaction which takes place as follows:



Card 1/2 The kinetics of the polyesterification of diethylol

Heterogenous Polyesters. Communication 10.
The Kinetics of the Polycondensation of Diethylole-
Terephthalate

62-50-4-15/32

terephthalate in temperature intervals of from 240-285° at atmospheric pressure was investigated. Furthermore the velocity of the reaction was determined. The activation was determined (35000 cal/mol). It was found that the polyesterification of diethylole terephthalate without catalysts obeys the reaction rules of the second order. At a temperature of 285° the reaction equilibrium is set up and a further heating does not change the molecular weight of the polyester any longer. The kinetics of the polyesterification of diethylole terephthalate was investigated in the presence of catalysts consisting of an hydrate of lithium oxide and lithium aluminate. These catalysts accelerate the reaction. There are 3 figures, 3 tables and 18 references, 12 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh sovedineniy Akademii
nauk SSSR (Institute for Elemental-organic Compounds, AS USSR)
SUBMITTED: October 12, 1956
AVAILABLE: Library of Congress
Card 2/2

1. Diethylole terephthalate—Condensation—Reaction

62-58-5-13/27

AUTHORS: Korshak, V. V., Bekasova, N. I., Zanyatina, V. A.

TITLE: On the Heterogeneous Chain Polyesters (O geterotsepnnykh poliofirakh) Communication 11: Chemical Destruction of Polyethyleneterephthalate (Soobshcheniye 11. Khimicheskaya destruktziya polietilentereftalata)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1958, Nr 5, pp. 614 - 617 (USSR)

ABSTRACT: Polyethyleneterephthalate (and all products of it) is very stable in chemical respect. This property favors its processing. Polyethyleneterephthalate is difficult to dissolve and as polyester it must enter chemical reaction. The present report is devoted to the investigation of this property of polyethyleneterephthalate. The destruction of polyethyleneterephthalate was investigated in cresol-solution at various temperatures. It was found in this connection that polyester decomposes when heated above 110°C. Moreover the acidolysis and glycolysis of

Card 1/2

62-58-5-13/27

On the Heterogeneous Chain Polyesters. Communication 11: Chemical Destruction of Polyethyleneterephthalate

polyethyleneterephthalate in a diphenyl-solution (at 200°C) on the action of adipic-acid and ethyleneglycol was investigated. It was found with this investigation that the degree of decomposition increases if an increase of the decomposing substances is observed simultaneously. Concluding, the decomposition-products were more closely defined. There are 3 figures and 14 references, 8 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elemental-organic Compounds AS USSR)

SUBMITTED: November 10, 1956

1. Polyethyleneterephthalate--Properties 2. Polyethyleneterephthalate
--Decomposition

Card 2/2

KORSHAK, V.V.; ZAMYATINA, V.A.; BEKASOVA, N.I.

Heterochain polyesters. Part 25: Polycondensation in a thin layer. *Vysokom.sped.* 1 no.11:1586-1592 N '59. (MIRA 13:5)

1. Institut elementoorganicheskikh soedineniy AN SSSR.
(Condensation products (Chemistry))

KORSHAK, V.V.; ZAMYATINA, V.A.; YUKEL'SON, I.I.; ~~BEKASOVA, N.I.~~

Polycondensation in a thin layer. Khim.nauka i prom. 4 no.4:
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(Condensation products (Chemistry))

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TITLE: Copolymerization of Boron-substituted Borazoles With Hexa-
methylene Diisocyanate

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TEXT: In this letter to the editor, the authors report on the successful
copolymerization of boron-substituted borazoles with hexamethylene di-
isocyanate. They obtained transparent, glassy, yellowish substances. The
following reaction diagram is given:

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Card 1/2